THE JOURNAL
OF
ANIMAL ECOLOGY

VOLUME 8

CAMBRIDGE UNIVERSITY PRESS
LONDON: BENTLEY HOUSE

BOMBAY, CALCUTTA, MADRAS: MACMILLAN
TOKYO: MARUZEN COMPANY LTD

All rights reserved

THE JOURNAL
OF
ANIMAL ECOLOGY

EDITED FOR THE
BRITISH ECOLOGICAL SOCIETY
by
CHARLES ELTON
and
DENNIS CHITTY

VOLUME 8
1939

WITH ELEVEN PLATES, AND NUMEROUS FIGURES
IN THE TEXT

CAMBRIDGE
AT THE UNIVERSITY PRESS
1939

PRINTED IN GREAT BRITAIN

CONTENTS

ORIGINAL PAPERS

PAGE

Allen, K. R. A note on the food of pike (*Esox lucius*) in Windermere . 72

Baweja, K. D. Studies of the soil fauna, with special reference to the recolonization of sterilized soil 120

Carpenter, J. Richard. *Special review.* Recent Russian work on community ecology 354

Carter, Walter. Populations of *Thrips tabaci*, with special reference to virus transmission 261

Chapman, W. M. M. The bird population on an Oxfordshire farm . 286

Chitty, Dennis. Canadian Arctic Wild Life Enquiry, 1937–38 . . 247

Davis, D. H. S. *See* **Leslie, P. H.** 94

Dixon, A. The Protozoa of some East Greenland soils 162

Glasgow, J. P. A population study of subterranean soil Collembola . 323

Hawes, R. S. The flood factor in the ecology of caves 1

Jackson, C. H. N. The analysis of an animal population . . . 238

Lack, David and **Venables, L. S. V.** The habitat distribution of British woodland birds 39

Lack, David. Further changes in the Breckland avifauna caused by afforestation 277

Leslie, P. H. and **Davis, D. H. S.** An attempt to determine the absolute number of rats on a given area 94

McDonogh, Richard S. The habitat, distribution and dispersal of the Psychid moth, *Luffia ferchaultella* in England and Wales . . . 10

Matheson, Colin. A survey of the status of *Rattus rattus* and its subspecies in the seaports of Great Britain and Ireland . . . 76

Moore, Hilary B. The colonization of a new rocky shore at Plymouth 29

Robertson, A. G. The nocturnal activity of crane-flies (Tipulinae) as indicated by captures in a light trap at Rothamsted . . . 300

Smith, E. P. On the introduction and distribution of *Rana esculenta* in East Kent 168

Southern, H. N. and **Venables, L. S. V.** Habitat selection among birds in a Lapland birch wood 114

Taylor, William Ling. The distribution of wild deer in England and Wales 6

Venables, L. S. V. Bird distribution on the South Downs, and a comparison with that of Surrey Greensand heaths 227

Venables, L. S. V. *See* **Lack, David; Southern, H. N.** . . 39, 114

NOTICES OF PUBLICATIONS ON THE ANIMAL ECOLOGY OF THE BRITISH ISLES 180, 393

REVIEWS PAGE

Baker, John R. The relation between latitude and breeding seasons in birds. (H. G. Vevers) 173

Bodenheimer, F. W. Problems of animal ecology. (Enid Nelmes) . 172

Darling, F. Fraser. A naturalist on Rona: essays of a biologist in isolation. (Charles Elton) 390

Erickson, Mary M. Territory, annual cycle and numbers in a population of wren-tits (*Chamaea fasciata*). (H. N. Southern) 177

Fisher, James. Birds as animals. (H. N. Southern) 389

Forest Bibliography to 31 December 1933. (Charles Elton) . . 391

Forestry Abstracts. (Charles Elton) 391

Horton-Smith. *See* **Smith, Horton-** 178

Huntington, Ellsworth. Season of birth: its relation to human abilities. (H. G. Vevers) 173

Iceland Papers. Vol. 1. Scientific results of Cambridge Expeditions to Iceland, 1932–38. (Charles Elton) 392

Journal of Ecology. Vol. 27, Nos. 1 and 2. (W. H. Pearsall) . 171, 387

Kashkarov, D. N. Fundamentals of animal ecology. (B. P. Uvarov) 171

Lockley, R. M. I know an island. (Charles Elton) 178

Marshall, F. H. A. The Croonian Lecture. Sexual periodicity and the causes which determine it. (H. G. Vevers) 173

Mellanby, Helen. Animal life in fresh water: a guide to British fresh-water invertebrates. (Charles Elton) 179

Pearse, A. S. Animal ecology. (O. W. Richards) 387

Sandars, Edmund. A butterfly book for the pocket.... (Charles Elton) 391

Smith, C. Horton-. The flight of birds. (H. N. Southern) . . . 178

BRITISH ECOLOGICAL SOCIETY

Business and list of members 207